



# UND Formula SAE



# About Us

- Joshua Dahn
  - Mechanical Engineering Senior
  - Vice President
  - Steering & Suspension Technical Lead
  
- James Meyers
  - Mechanical Engineering Junior
  - Outreach Coordinator
  - Engine & Drivetrain Technical Lead



# Who We Are

- UND Student Organization
  - 30 Students, Freshman to Graduate
  - Primarily Engineering
    - Other Schools Represented Including Business & Aviation



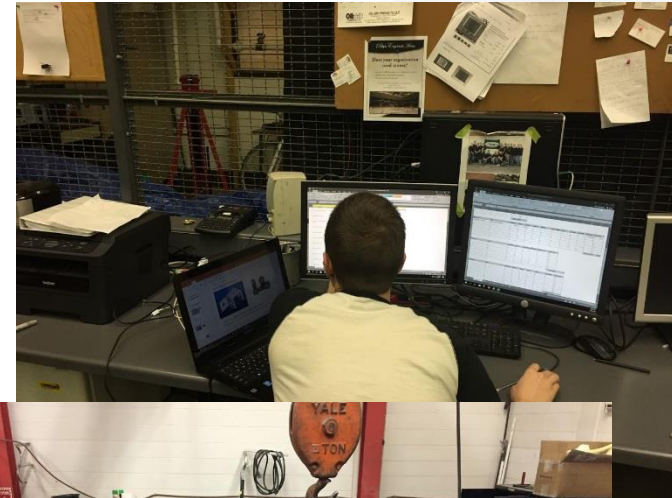
# What We Do

- Compete in Formula SAE Competition
- Community Outreach
  - FIRST Robotics
  - FIRST Lego League
  - Rydell Car & Bike Show
  - UND STEM Day
  - SCCA Racing
  - Host Guest Lecturers



# Formula SAE Summary

- Design, Build, Test Open Wheel Racecar
- Research and Development, Sep.-Dec.
- Build and Test, Jan.-May
- Competition
  - June 20-23<sup>rd</sup> Lincoln, NE. Airfield
  - 80 Other Teams in Our Class
  - 2017 Resulted in a Team Best Finish



# Competition

## 8 Events

- 5 Dynamic Events

- Acceleration
- Skidpad (Handling)
- Autocross (Fastest Lap)
- Endurance
- Fuel Economy (Occurs During Endurance)

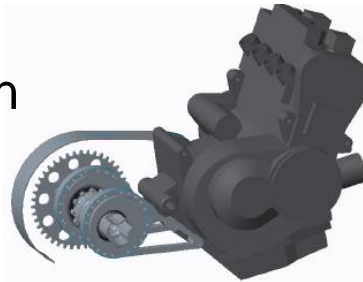
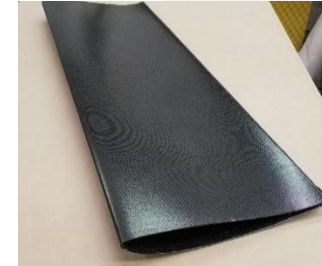
- 3 Static Events

- Cost & Manufacturing Analysis
- Design Judging
- Business Presentation



# Project Developments for 2018

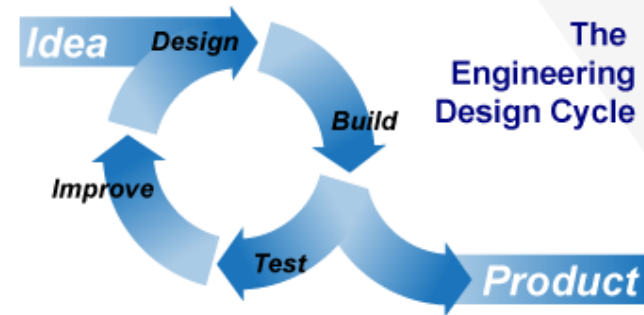
- Full Aerodynamic Package
  - Massively Improve Handling
- All-New Exhaust Design
  - Increase Drivability and Predictability of Car
- Differential Mount Redesign
  - Increase Reliability
- Aircraft Grade Fabric Skin
  - Decrease Production Cost



These changes and *many more* should make 2018  
UND Formula SAE's best year ever!

# Professional Development

- Simulated Industrial Experience
  - Designed to Emulate Small Business
    - Team Broken Down into Subteams with Established Hierarchy
- Enhance Engineering Education
  - Largest Engineering Project at UND
    - Full Engineering Cycle
  - Supports Engineering Capstone Project





# Academic & Career Opportunities

- Internationally Recognized Project
  - Many Companies Regard Formula SAE Highly
  - Hands On Application of Classwork
  - Project Components Can Often Be Used As Class Projects
- Opportunity to Work Closely With Industry
- *A Selection of Companies UND Formula SAE Alumni/Members Have Gone On to Work For*



Go Further



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# Thank You!



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